

IAP15 Rec'd PCT/PTO 10 AUG 2006  
PCT #  
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Attorney Docket No.: P-8761-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: BARAK, Menashe Examiner: Not yet assigned  
Serial No.: 10/581,047 Group Art Unit: Not yet assigned  
Filed: May 30, 2006  
Title: PULSE FORMING NETWORK AND PULSE GENERATOR

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18 AUG 2006

Legal Staff  
International Division

PETITION TO MAKE SPECIAL -  
ACCELERATED EXAMINING PROCEDURE

**Mail Stop Petitions**  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

For the reasons set forth herein, Applicant petitions to make the above-referenced application special by way of accelerated examination procedure. The application is new – it entered US national phase on May 30, 2006, and it has not received any examination by the examiner. The application is therefore eligible for accelerated examining procedure. In accordance with MPEP 708.02(VIII), Applicant hereby states the following:

- a) A petition to make special is submitted, and Applicant hereby authorizes the USPTO to charge the fee set forth in 37 CFR 1.17(h) to Deposit Account No. 50-3355.
- b) All claims are directed to a single invention. If the Office determines that all the claims presented are not obviously directed to a single invention, Applicant will make an election without traverse as a prerequisite to the grant of the special status: (Applicant chooses not to include an election herewith; but if the Office

should determine that a requirement should be made, the established telephone restriction practice will be followed).

- c) A pre-examination search was made on the parent PCT application by the USPTO as International Searching Authority. The field of search was U.S. 307/106. A copy of the International Search Report is submitted herewith as **Exhibit A**.
- d) The only reference deemed as pertinent by the USPTO as International Searching Authority is US Patent No. 4,684,820 (Valencia), issued August 4, 1987. A copy of the patent is submitted herewith as **Exhibit B**.
- e) A discussion of the reference how the claimed subject matter is patentable over there references (taken from the Written Opinion of the International Searching Authority, attached as **Exhibit C**) follows:

Claims 1-51 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest two pulse forming networks electrically connected and magnetically coupled back to back.

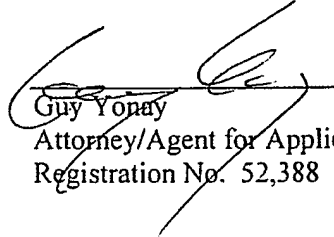
Claims 1-51 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

In view of the foregoing amendments and remarks, Applicant petitions for accelerated examining procedure for the above-referenced application.

Should the Examiner have any question or comment as to the form, content or entry of this Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone the undersigned counsel.

Please charge any fees associated with this paper to deposit account No. 50-3355.

Respectfully submitted,

  
Guy Yonay  
Attorney/Agent for Applicant  
Registration No. 52,388

Dated: August 10, 2006

**Pearl Cohen Zedek Latzer, LLP**  
1500 Broadway, 12th Floor  
New York, New York 10036  
Tel: (646) 878-0800  
Fax: (646) 878-0801

# Exhibit A

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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Applicant's or agent's file reference 1746/OA	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IL04/00873	International filing date (day/month/year) 21 September 2004 (21.09.2004)	(Earliest) Priority Date (day/month/year) 24 September 2003 (24.09.2003)
Applicant T SQUARED THERMAL TECHNOLOGIES, LTD.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of \_\_\_\_\_ sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1 Basis of the Report

- a. With regard to the language, the international search was carried out on the basis of:
- ☒ the international application in the language in which it was filed.
- ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.
2. ☐ Certain claims were found unsearchable (See Box No. II)
3. ☐ Unity of invention is lacking (See Box No. III)
4. With regard to the title,
- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

## 5. With regard to the abstract,

- ☐ the text is approved as submitted by the applicant.
- ☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

## 6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 2
- ☐ as suggested by the applicant
- ☐ as selected by this Authority, because the applicant failed to suggest a figure
- ☒ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00873

## Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

### NEW ABSTRACT

A pulse forming network is disclosed. The device comprises two pulse forming networks (40). A first pulse forming network comprising  $n$  sections,  $n$  being an interger, and a second pulse forming network comprising  $m$  sections,  $m$  being an interger, each of the sections of the first and the second pulse forming networks comprising at least one capacitor and at least one inductor, and each pulse forming network having one output for connecting one load, the two pulse forming networks electrically connected and magnetically coupled back to back. A method and device for extinguishing an electrical pulse generated by a pulse generator is also disclosed (SWO).

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00873

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC: H03K 3/00( 2006.01)

USPC: 307/106

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 307/106

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,684,820 (VALENCIA) 4 AUG 1987 (04-08 1987). ABSTRACT.	1-51

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier application or patent published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*Z\* document member of the same patent family

Date of the actual completion of the international search

13 March 2006 (13.03.2006)

Date of mailing of the international search report

26 APR 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer *Robert DeBeradinis*

Robert DeBeradinis

Telephone No. 571 272 2800

Form PCT/ISA/210 (second sheet) (April 2005)

# Exhibit B



# Exhibit C

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
DORON SIERADZKI  
MILLER-SIERADZKI ADVOCATES & PATENT  
PO BOX 6149  
HAIFA, ISRAEL 31061

## PCT

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference  1746/OA		Date of mailing (day/month/year) <b>26 APR 2006</b>	
		FOR FURTHER ACTION See paragraph 2 below	
International application No.  PCT/IL04/00873	International filing date (day/month/year)  21 September 2004 (21.09.2004)	Priority date (day/month/year)  24 September 2003 (24.09.2003)	
International Patent Classification (IPC) or both national classification and IPC  IPC: H03K 3/00( 2006.01) USPC: 307/106			
Applicant  T SQUARED THERMAL TECHNOLOGIES, LTD.			

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Form PCT/ISA/237 (cover sheet) (April 2005)	Date of completion of this opinion  13 March 2006 (13.03 2006)	Authorized officer <i>Robert DeBeradinis</i>  Robert DeBeradinis  Telephone No. 571 272 2800
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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL04/00873

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:
- ☒ the international application in the language in which it was filed
  - ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
- a. type of material
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material
    - ☐ on paper
    - ☐ in electronic form
  - c. time of filing/furnishing
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in electronic form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/IL04/00873

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 1-51 \_\_\_\_\_ YES  
Claims NONE \_\_\_\_\_ NO

Inventive step (IS)

Claims 1-51 \_\_\_\_\_ YES  
Claims NONE \_\_\_\_\_ NO

Industrial applicability (IA)

Claims 1-51 \_\_\_\_\_ YES  
Claims NONE \_\_\_\_\_ NO

2. Citations and explanations:

Claims 1-51 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest two pulse forming networks electrically connected and magnetically coupled back to back.

Claims 1-51 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:  
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;  
claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:  
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:  
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or  
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:  
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)".

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55 3(a) and 62 2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43 bis 1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, Volume II.

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